Thermo Scientific Revco CxF Series Ultra-Low Temperature Freezers

Versatile chest configurations. Reliable sample protection.

Our CxF Series chest freezers feature all the sample protection features of our ExF and DxF freezers in four convenient sizes. Choose a -40°C or a -86°C option, as well as a full range of racking solutions for maximum sample storage.



- Heavy gauge, cold-rolled steel exterior construction with a powder coat paint finish that resists chipping and rust
- 5" (12.7 cm) foamed-in-place, polyurethane insulation
 - Optional built-in chart recorder or data logger for continuous monitoring

Easy-to-remove, washable air filter provides protection from dust on condenser, reducing the risk of refrigeration malfunction or risk to samples



- Eye-level, easy-to-use microprocessor control panel; knee level on 3 cu. ft. (85L) models
- Optional CO₂ or LN₂ safety back-up system for additional protection in the event of a power or mechanical failure
- Message center: 12-character alphanumeric LED displays setpoints, system status and alarm messages
- Access code to ensure setpoint security

- Ergonomic, lockable door handle
- Convenient interior covers let you minimize sample exposure to outside conditions
- Inner sub-lids protect bulk samples from ambient exposure during single sample retrievals
- Stainless steel interior



RS-232 and 4-20 milliamp analog outputs for independent monitoring devices and recorders

Heavy duty casters with locking tandem wheel design for smooth mobility



Thermo Scientific Revco CxF Series Ultra-Low Temperature Chest Freezers (Temperature Range: -50°C to -86°C)

Model No.	Capacity cu. ft. (liters)	Cryobox Capacity 2 in.	Electrical	Amps/Breaker (Plug)	Interior Dimensions H x W x D in. (cm)	Exterior Dimensions H x W x D in. (cm)	Shipping Weight Ibs. (kg)
ULT390-10-A	3.0 (85)	63	115V / 60 Hz	10.5/20 (NEMA 5-20)	16.5 x 18.5 x 18.5	43.8 x 28.5 x 29.9	432 (196)
ULT390-10-V	3.0 (03)	0.5	230V / 50 Hz	5.4/15 (European)	(41.9 x 47.0 x 47.0)	(111.3 x 72.4 x 75.9)	432 (190)
ULT1390-10-A			115V / 60 Hz	16/20 (NEMA 5-20)			
ULT1390-10-D	12.7 (360)	252	208-230V / 60 Hz	12/15 (NEMA 6-15)	28.0 x 42.5 x 18.5 (71.1 x 108.0 x 47.0)	40.5 x 72.0 x 33.4 (102.9 x 182.9 x 84.8)	716 (325)
ULT1390-10-V			230V / 50 Hz	12/15 (European)	((**=***********************************	
ULT1790-10-A			115V / 60 Hz	16/20 (NEMA 5-20)			
ULT1790-10-D	17.0 (481)	348	208-230V / 60 Hz	12/15 (NEMA 6-15)	28.0 x 58.8 x 18.5 (71.1 x 149.4 x 47.0)	40.5 x 87.6 x 33.8 (102.9 x 222.5 x 85.9)	821 (372)
ULT1790-10-V			230V / 50 Hz	12/15 (European)	(* * * * * * * * * * * * * * * * * * *	(**************************************	
ULT2090-10-A			115V / 60 Hz	16/20 (NEMA 5-20)	00.0 00.5 10.5	40.500.000.4	
ULT2090-10-D	20.0 (566)	396	208-230V / 60 Hz	12/15 (NEMA 6-15)	28.0 x 66.5 x 18.5 (71.1 x 168.9 x 47.0)	40.5 x 96.0 x 33.4 (102.9 x 243.8 x84.8)	833 (378)
ULT2090-10-V			230V / 50 Hz	12/15 (European)	,	,	

Thermo Scientific Revco CxF Series Ultra-Low Temperature Chest Freezers (Temperature Range: -10°C to -40°C)

Model No.	Capacity cu. ft. (liters)	Cryobox Capacity 2 in.	Electrical	Amps/Breaker (Plug)	Interior Dimensions H x W x D in. (cm)	Exterior Dimensions H x W x D in. (cm)	Shipping Weight Ibs. (kg)
ULT350-10-A	3.0 (85)	63	115V / 60 Hz	5/15 (NEMA 5-20)	16.5 x 18.5 x 18.5	43.8 x 28.5 x 29.9	395 (179)
ULT350-10-V	3.0 (65)	03	230V / 50 Hz	3/15 (European)	(41.9 x 47.0 x 47.0)	(111.3 x 72.4 x 75.9)	393 (179)
ULT1350-10-A			115V / 60 Hz	6.5/15 (NEMA 5-20)	28.0 x 42.5 x 18.5 (71.1 x 108.0 x 47.0)	40.5 x 72.0 x 33.4 (102.9 x 182.9 x 84.8)	659 (299)
ULT1350-10-D	12.7 (360)	252	208-230V / 60 Hz	6.5/15 (NEMA 6-15)			
ULT1350-10-V			230V / 50 Hz	6.5/15 (European)			
ULT1750-10-A			115V / 60 Hz	6.5/15 (NEMA 5-20)			
ULT1750-10-D	17.0 (481)	348	208-230V / 60 Hz	6.5/15 (NEMA 6-15)	28.0 x 58.8 x 18.5 (71.1 x 149.4 x 47.0)	40.5 x 87.6 x 33.8 (102.9 x 222.5 x 85.9)	764 (347)
ULT1750-10-V			230V / 50 Hz	6.5/15 (European)	(, , , , , , , , , , , , , , , , , , ,	(10210 x 22210 x 0010)	
ULT2050-10-A			115V / 60 Hz	6.5/15 (NEMA 5-20)			
ULT2050-10-D	20.0 (566)	396	208-230V / 60 Hz	6.5/15 (NEMA 6-15)	28.0 x 66.5 x 18.5 (71.1 x 168.9 x 47.0)	40.5 x 96.0 x 33.4 (102.9 x 243.8 x84.8)	776 (352)
ULT2050-10-V			230V / 50 Hz	6.5/15 (European)	(* * * * * * * * * * * * * * * * * * *	(* 22.2 2 10.0 X0 1.0)	

Monitoring and Remote Alarms

Description	Voltage	Model No.
Remote Alarm with Audible Signal: Extend the freezer's on-board alarms systems to remote locations in the facility.		5612-1A
		5612-3V
Sensaphone Telephone Dialing System: Monitors up to four channels; Dials up to four numbers (not CE).		400047
Dedicated phone line is required.	220V / 50Hz	400182
Sensaphone Telephone Dialing System: Monitors up to eight channels; Dials up to eight numbers (not CE).	120V / 60Hz	400134
edicated phone line is required.		400183
emperature / Power Monitor: External digital and audible/visual alarms monitor the temperature and power supply of the freezer.		400048
Includes temperature probe.	220V / 50Hz	400049



Options (Field-installed must be installed by a qualified professional)

Description	ULT390 ULT350	Other Models	
LN ₂ Backup System	Factory Installed	195	0535
Maintains temperature down to -80°C with liquid nitrogen	Field Installed	195	60536
CO ₂ Backup System	Factory Installed	195	0533
Maintains temperature down to -70°C with CO ₂	Field Installed	1950534	
Chart Recorder 6" ((15.2cm),	Factory Installed	398224	398226
seven day ink recorder, to -150°C includes 50 chart papers	Field Installed	398225	398223
	RS-232 (0-1V)	39	8213
Data Outputs (Factory Installed Only)	RS-485 (0-1V)	398214	
	RS-485 (0-5V)	39	8215

Accessories

Description	ULT390 ULT350	Other Models	
Replacement Air Filter (pack of five)	195947	195948	
Ink Chart Paper (pack of 50)	170)20	
Inkless Chart Paper (pack of 50)	180	000	
Replacement Back-Up Battery	400	159	
Red Felt Tip Chart Pen	245231		
Blue Felt Tip Chart Pen 245232			
LN ₂ Transfer Hose Flexible 6' metal hose. 0.5: diameter, 45° flare with swivel ends	4000401		
Wall Clamp CO ₂ cylinder holder for securing tank to the wall in accordance with OSHA guidelines		950316	
High-Pressure Liquid CO₂ Hose Kink-resistant, stainless steel lined, double-braided sheath. 316 stainless steel NPT F fitting. Max. working pressure 25,000 psig. 6' long	991505		
Cryo Gloves Medium 4425			
Cryo Gloves Large	44	26	

Water-Cooled Condenser Option

The water-cooled condenser option is available on our -86°C upright and chest freezers. Your work environment stays cooler because 50% less heat is emitted to your surroundings (i.e. less BTU rejection). A water regulating valve automatically controls the water flow needed to maintain the compressor discharge pressure. Cooler compressor temperatures enhance compressor stability and reliability. Like our standard freezers, those with the water-cooled condenser options are also UL listed to Canadian and United States requirements and bear the CE mark.

The following specifications apply to tower and city water sources: *

Water Pressure and Temperature

Maximum Pressure 150 psig
Maximum Temperature 29.4°C

Connections

Inlet 0.5" compression Outlet 0.5" compression

Water Flow Rate Required (per minute)

Tower Water 3.0 gal. (11.4L)
City Water 1.0 gal. (3.8L)

Drain Required?

Tower Water No (return line)
City Water Yes

Installation requires a qualified technician and should include proper adjustment of the regulating valve which controls the discharge pressure.

* Actual requirements may vary due to specific water pressure conditions.

Model No.	For Use With	
195967	All chest freezers except 3 cu. ft. (85L)	

Fiberboard Grid Dividers

Model No.	Dimensions	Quantity	Holds
5958	10 x 10, 0.49" cell	12	12mm vials (100)
820100	10 x 10, 0.49" cell	1	12mm vials (100)
6212	9 x 9, 0.54" cell	12	13mm vials (81)
820081	9 x 9, 0.54" cell	1	13mm vials (81)
5960	8 x 8, 0.61" cell	12	14mm vials (64)
820064	8 x 8, 0.61" cell	1	14mm vials (64)
5959	7 x 7, 0.7" cell	12	16mm vials (49)
820049	7 x 7, 0.7" cell	1	16mm vials (49)
820025	5 x 5, 0.98" cell	1	25 vials
820016	4 x 4, 1.22" cell	1	16 vials

Thermo Scientific Cryoboxes and Dividers



2" (5.1cm) Fiberboard Cryo Boxes 5" x 5" (12.7 cm x 12.7 cm) water repellent cardboard

Model No.	Quantity	Dividers
5954	12	none
820002	1	81
820109	1	100

The same	3" (7.6cm) Fiberboard Cryo Boxes 5" x 5" (12.7 cm x 12.7 cm water repellent cardboard
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	Model No.	Quantity	Dividers	
1)	5956	12	none	
'''	820003	1	81	

Thermo Scientific Revco CxF Series Ultra-Low Temperature Chest Freezer Racks

	Model No.	Description W x H x D in. (cm)	Freezer Vol. cu. ft. (liters)	Boxes Per Rack (Plates)	Racks/Freezer (Plates)	Boxes/Freezer (Plates)
***	398184	2" Box Rack 5.5 x 16 x 5.5 (14 x 40.6 x 14)	3 (85)	7	9	63
匪			12.7 (360)	12	21	252
	398186	2" Box Rack 5.5 x 26.5 x 5.5 (14 x 67.3 x 14)	17 (481)	12	29	348
			20 (566)	12	33	396
##	398185	3" Box Rack 5.5 x 16 x 5.5 (14 x 40.6 x 14)	3 (85)	5	9	45
			12.7 (360)	8	21	168
	398187	3" Box Rack 5.5 x 26.5 x 5.5 (14 x 67.3 x 14)	17 (481)	8	29	232
		20 (566)	8	33	264	
			12.7 (360)	(27)	(33)	(891)
	398188	27 Position Microplate Rack 5.3 x 25.8 x 3.5 (13.5 x 65.5 x 8.9)	17 (481)	(27)	(48)	(1,296)
		,	20 (566)	(27)	(51)	(1,377)
	114048	Wire Basket with Rollers* 11.8 x 12.3 x 16.5	12.7 (360)	N/A	5	N/A
		(30 x 31.2 x 42)	20 (566)	N/A	9	N/A
	189001	Wire Basket Rail Set	12.7 (360)	N/A	N/A	N/A
	189000	Wire Basket Rail Set	12.7 (566)	N/A	N/A	N/A

^{*} Basket rail set is required